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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/087,740	03/05/2002	Kevin Cheng	3313-0493P	7017
2292	7590 01/07/2	04	EXAM	IINER
BIRCH STEWART KOLASCH & BIRCH			MCPHERSON, JOHN A	
PO BOX 74'	7 JRCH, VA 22040-0	747	ART UNIT	PAPER NUMBER
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DATE MAILED: 01/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	A-M-M-N-	[A 1]				
	Application No.	Applicant(s)				
Office Action Summary	10/087,740	CHENG ET AL.				
Cindo Action Gainmary	Examiner	Art Unit				
The MAILING DATE of this communication app	John A. McPherson ears on the cover sheet with the c	1756				
Period for Reply	· · · · · · · · · · · · · · · · · · ·	orrespondence dadress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILLING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is a specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 130). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 05 Ma	arch 2002 and 12 April 2002.					
2a)☐ This action is FINAL . 2b)☒ This a	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers	Ciccion requirement.					
9) The specification is objected to by the Examiner	;					
10)⊠ The drawing(s) filed on <u>05 March 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.						
 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 						
Attachment(s) 1) ⊠ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary 5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Office Act	tion Summary	Part of Paper No. 122203				

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Art Unit: 1756

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 09-080417 (JP '417). JP '417 discloses a process for producing a color filter comprising the steps of injecting a coloring material from an ink jet device onto selected ITO electrodes formed on a glass substrate while a voltage is impressed on the selected ITO electrodes. See the abstracts. However, JP '417 does not utilize an optical detection system or form a printing frame on the color filter substrate. The examiner takes Official Notice that it is known in the art to utilize an optical detection system to monitor the landing position of ink drops while forming a color filter by ink jet printing. and that it is known to form a printing frame on a substrate so as to separate pixels of different color from one another while forming a color filter by ink jet printing. It would have been obvious to one skilled in the requisite art to utilize an optical detection system and to provide a printing frame on the substrate in the process of forming a color filter of JP '417 because it is known in the art that an optical detection system provides for monitoring the landing position of ink drops while forming a color filter by ink jet printing so as to improve quality, and it is known to form a printing frame on a substrate separating pixels of different color from one another so as to prevent color mixing.

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2. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

US 2002/060757 discloses a method of manufacturing an active matrix substrate

comprising the step of discharging by ink jet printing a mixed ink of coloring material and

conductive material to form a conductive color layer, wherein the conductive color layers

function as pixel electrodes and color filters.

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John A. McPherson whose telephone number is (571)

272-1386. The examiner can normally be reached on Monday through Friday, 8:00 AM

to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Huff can be reached on (571) 272-1385. The fax phone number for

the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0661.

John A. McPherson

Primary Examiner Art Unit 1756

JAM 12/22/03